



Received
JAN 10 1992
SUPERFUND DIVISION

January 8, 1992

Mr. Mike Kuntz
Washington State Department of Ecology
M/S PV-11
Olympia, WA 98504-8711

**RE: FOURTH QUARTER 1991 PROGRESS REPORT
COLBERT LANDFILL RD/RA**

Dear Mr. Kuntz:

Presented herein is the Fall (October, November, and December) 1991 Progress Report for the Colbert Landfill RD/RA Superfund Project (Project), which was prepared by Landau Associates, Inc., Spokane County's engineering consultant. This progress report addresses the reporting requirements specified in Section XI of the Project Consent Decree, including:

- Remedial action activities commenced or completed during the reporting period
- Remedial action activities projected to be commenced or completed for the next reporting period (through March 1992)
- Any problems that were encountered or are anticipated.

1.0 ACTIVITIES COMMENCED/COMPLETED DURING REPORTING PERIOD

Activities commenced and/or completed during the reporting period include responding to EPA and Ecology comments on the draft Phase I Engineering Report (draft Report), completion of the Final Phase I Engineering Report (Final Report), construction and sampling of two monitoring wells, and initiation of Phase II Design. Specific activities performed during the reporting period included:

- Response to EPA and Ecology comments on the draft Report were addressed in a November 14, 1991 letter prepared by Landau Associates.
- EPA and Ecology approved the report in a November 26, 1991 letter (and December 12, 1991 addendum), subject to incorporation of the changes described in Landau Associates' November 14, 1991 letter into the Final Report
- The Final Report was prepared (incorporating the previously described changes) and was submitted to EPA and Ecology on December 30, 1991.
- Construction of the two additional Upper Sand/Gravel Aquifer monitoring wells (CD-34 and CD-35) was completed. The wells were sampled and analyzed for volatile organic compounds, alkalinity, total dissolved solids, total suspended solids, and turbidity; Monitoring Well CD-46C2 was also sampled

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and analyzed for the same parameters. Groundwater elevation data for the Upper Sand/Gravel Aquifer was also collected. Hydrogeologic and water quality data collected for the Upper Aquifer are consistent with Phase I data, and will be presented in a technical memorandum.

- Phase II design was initiated. Initial Phase II design activities include:
 - A groundwater flow model was developed utilizing the MODFLOW computer model, based on aquifer properties presented in the Phase I Engineering Report. Preliminary modeling results indicate a total groundwater extraction rate of 700-1400 gpm will be required for Phase II Remedial Action. However, modeling activities are ongoing and extraction rates are subject to revision.
 - Evaluation of the available options to control chemical scale formation in the Phase II treatment system was initiated, and is ongoing.
 - Design of the Phase II stripping tower was initiated, and is ongoing.
 - Revisions to the Project Health and Safety Plan and Quality Assurance Project Plan (QAPjP) were initiated, and are ongoing.

2.0 ACTIVITIES PROJECTED TO BE COMMENCED/COMPLETED DURING NEXT REPORTING PERIOD

As specified in Section XI of the Project Consent Decree, the next reporting period extends through the first quarter (March) of 1992. Anticipated activities for the next reporting period include:

- Preparation of a technical memorandum describing the well construction, sampling, and analyses accomplished subsequent to Phase I activities. The technical memorandum will be submitted to EPA and Ecology for review (by late January).
- Submittal of the revised Health and Safety Plan and QAPjP to EPA and Ecology for review and approval. The Schedule for Submittal of Deliverables (Schedule) specifies that these revised plans be submitted within three months of EPA and Ecology approval of the Report (November 26, 1991). As such, submittal of these plans by February 26, 1992, is required. However, it is anticipated that plan revisions will be completed by early February, and the revised plans will be submitted to EPA and Ecology upon completion.
- Submittal of 30 percent design to EPA and Ecology for review and approval. Thirty percent design will be presented in the Preliminary Phase II Groundwater Monitoring Plan, Extraction Well Plan, and Treatment and Discharge Plan. The Schedule specifies that these preliminary plans be submitted within 3.5 months of EPA and Ecology Report approval. As such, these plans will be submitted by March 10, 1992.
- Meetings with EPA and Ecology representatives to discuss Phase II design progress. The Schedule identifies a County-Agency technical session at 50 percent completion of preliminary Phase II Work Plans. Late January or early February is appropriate timing for this meeting, and EPA and Ecology personnel will be contacted to establish a meeting location and date.

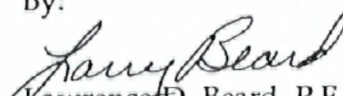
3.0 ENCOUNTERED/ANTICIPATED PROBLEMS

No problems were encountered during the previous reporting period and no problems are anticipated for the next reporting period.

This report describes progress on only the primary Project remedial action activities. There are peripheral activities associated with the primary activities that are not described herein. If clarification is required for any of the activities presented in this progress report, or if additional information is desired for peripheral activities, please contact me or Dean Fowler (Spokane County).

LANDAU ASSOCIATES, INC.

By:


Lawrence D. Beard, P.E.
Project Manager

LDB/sg
No. 124-01.60

cc: Neil Thompson, EPA
Dean Fowler, Spokane County
Lyle Diedieker, Ecology and Environment